

**Figure 1**

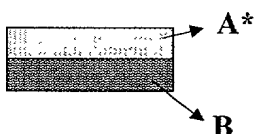
### **pH-Sensitive Mucoadhesive Film-Forming Gels**



#### Composition of Gel:

- A solvent vehicle comprising at least 25% water
- Water-insoluble swellable mucoadhesive polymer(s)
- pH-sensitive film-forming polymer(s)
- Molecule of interest

### **pH-Sensitive Mucoadhesive Wax-Film Composites**

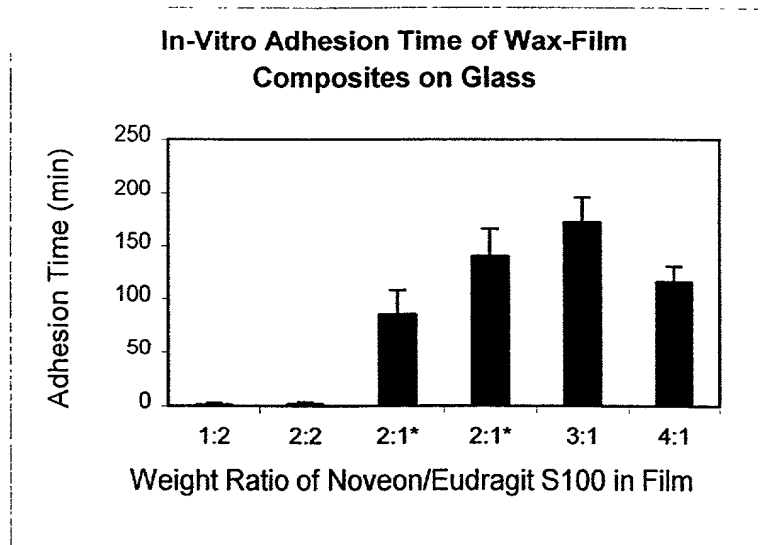


#### Composition of Wax-Film Composite:

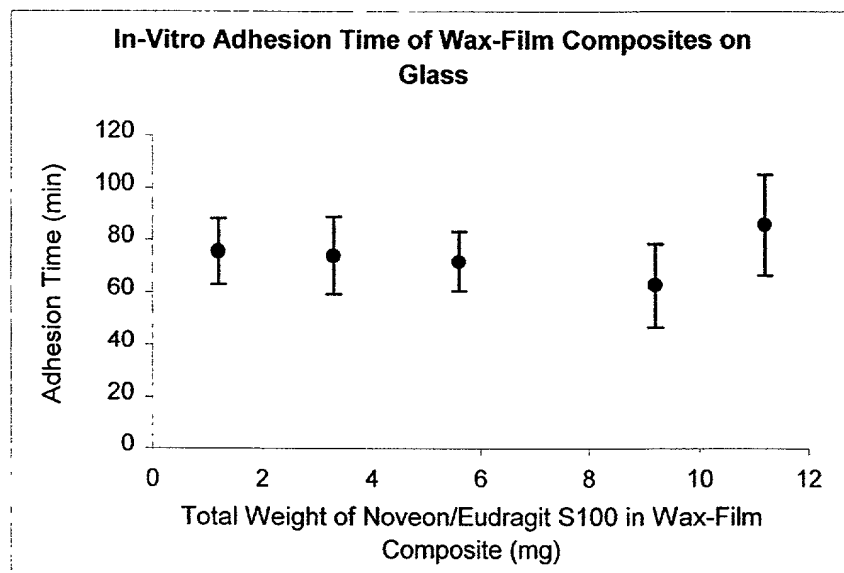
- A\*: pH-sensitive mucoadhesive layer (comprised of the components of A above less the solvent vehicle)
- B: Water-insoluble wax layer with water-soluble or water-swellable polymer

Note: Molecule of interest is contained in either A\* or B, or both

**Figure 2**



**Figure 3**



**Figure 4**

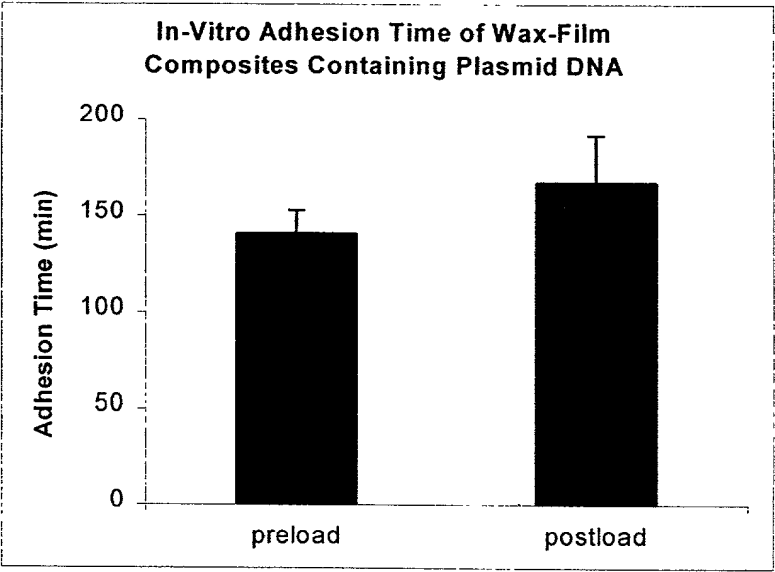


Figure 5

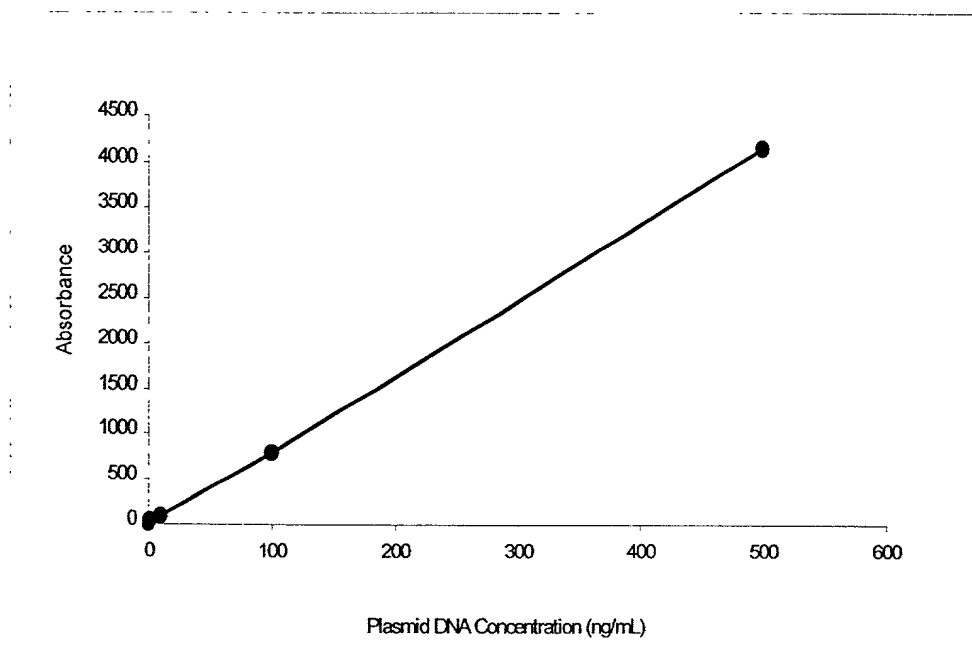


Figure 6

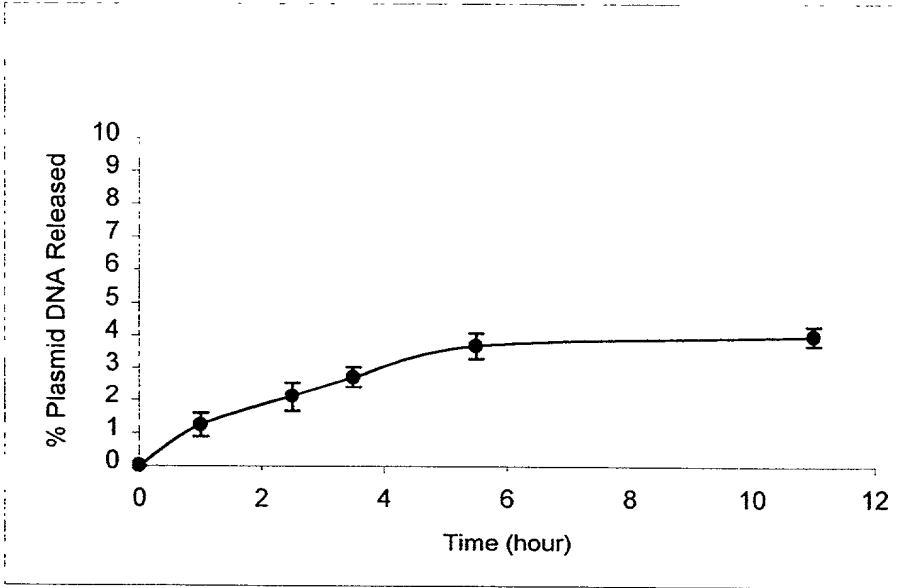


Figure 7

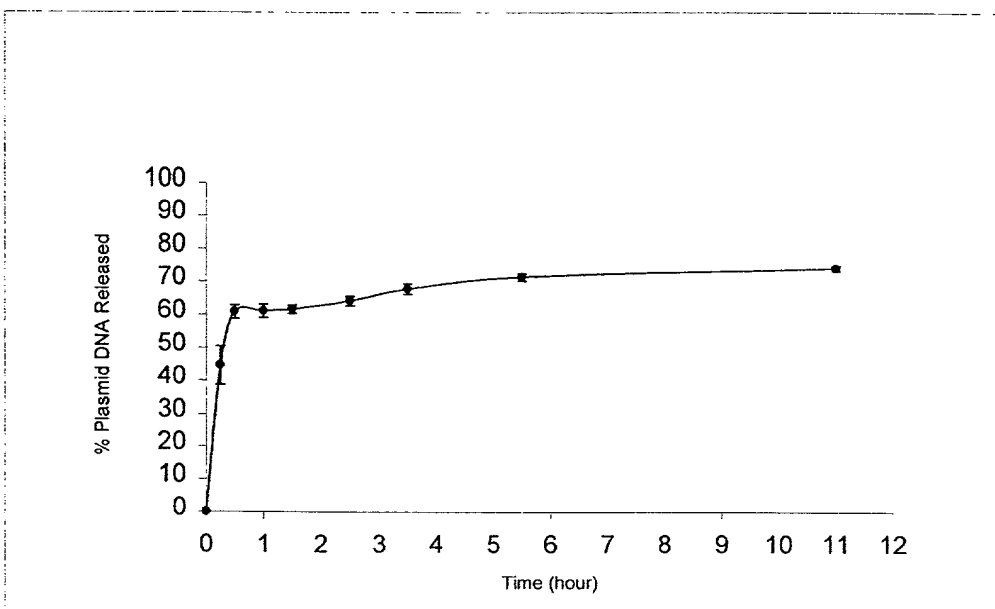
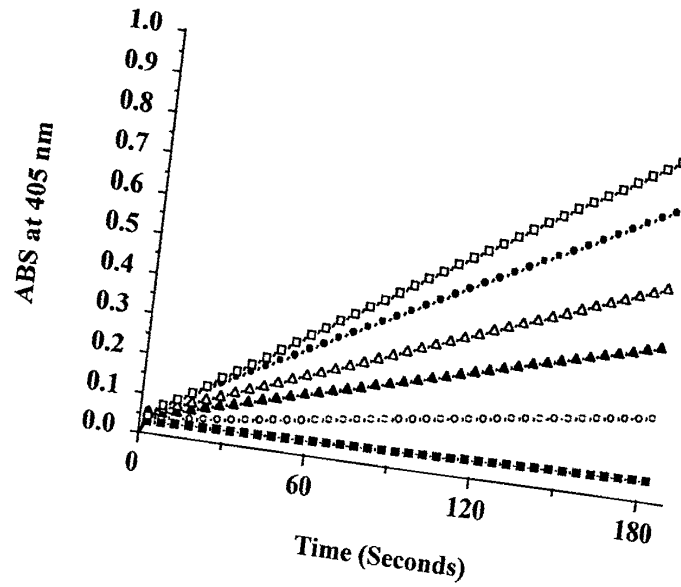


Figure 8

A



B

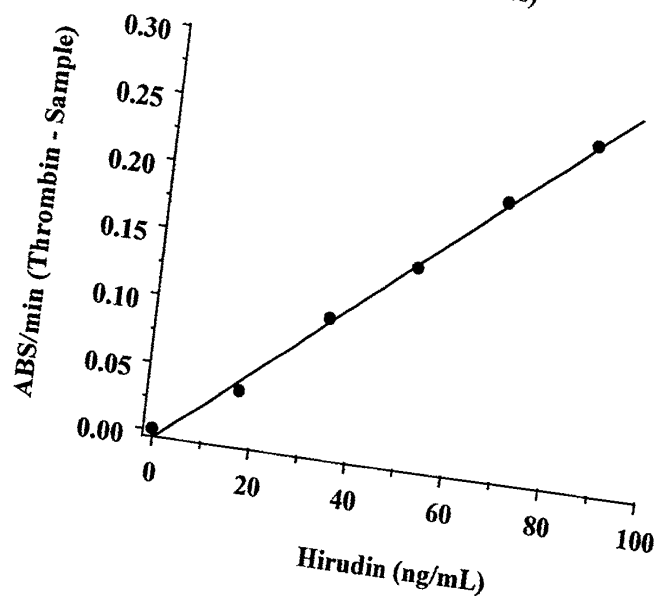
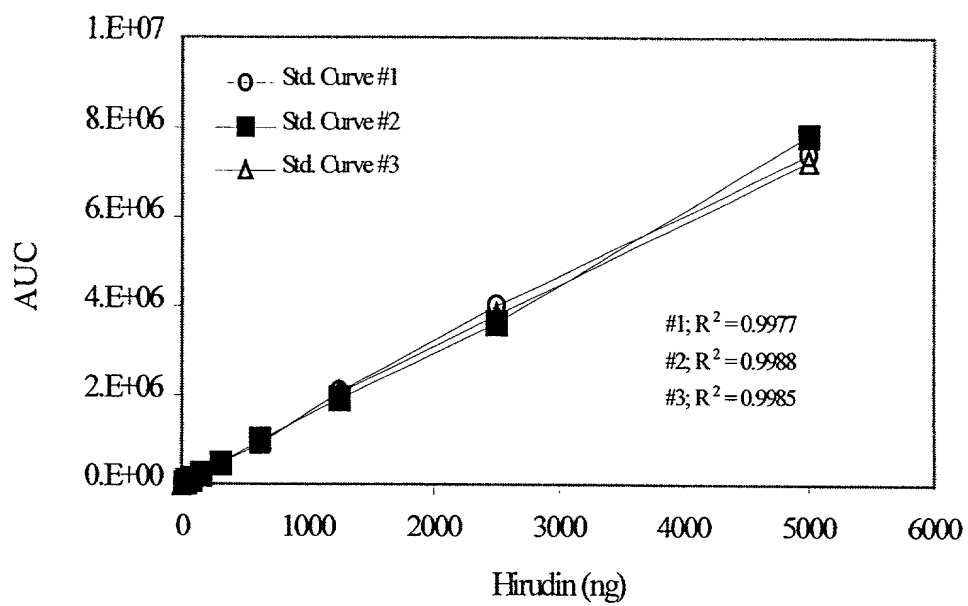




Figure 9



**Figure 10**

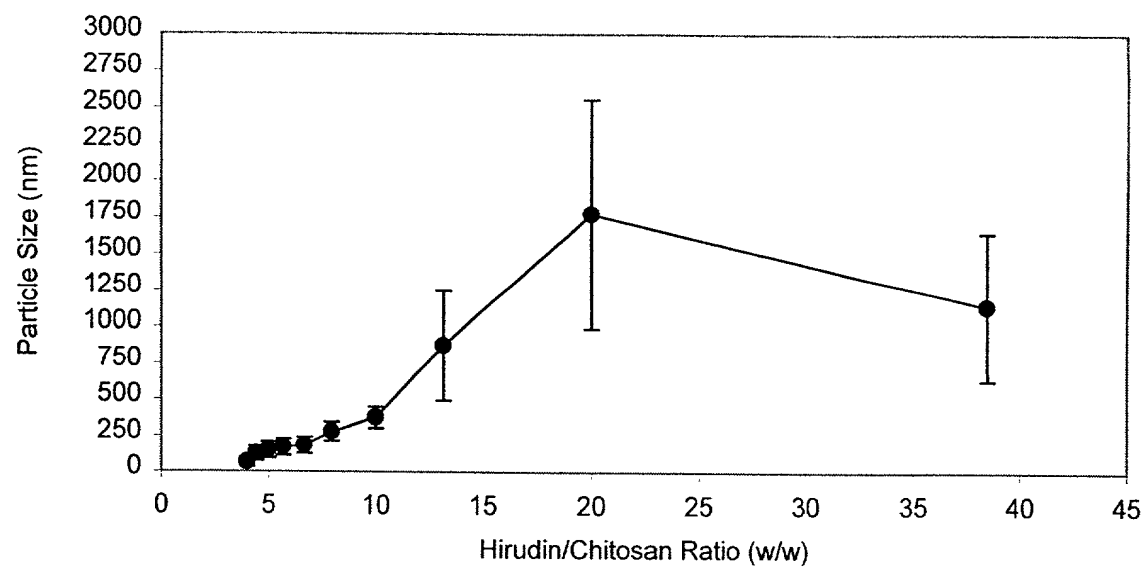
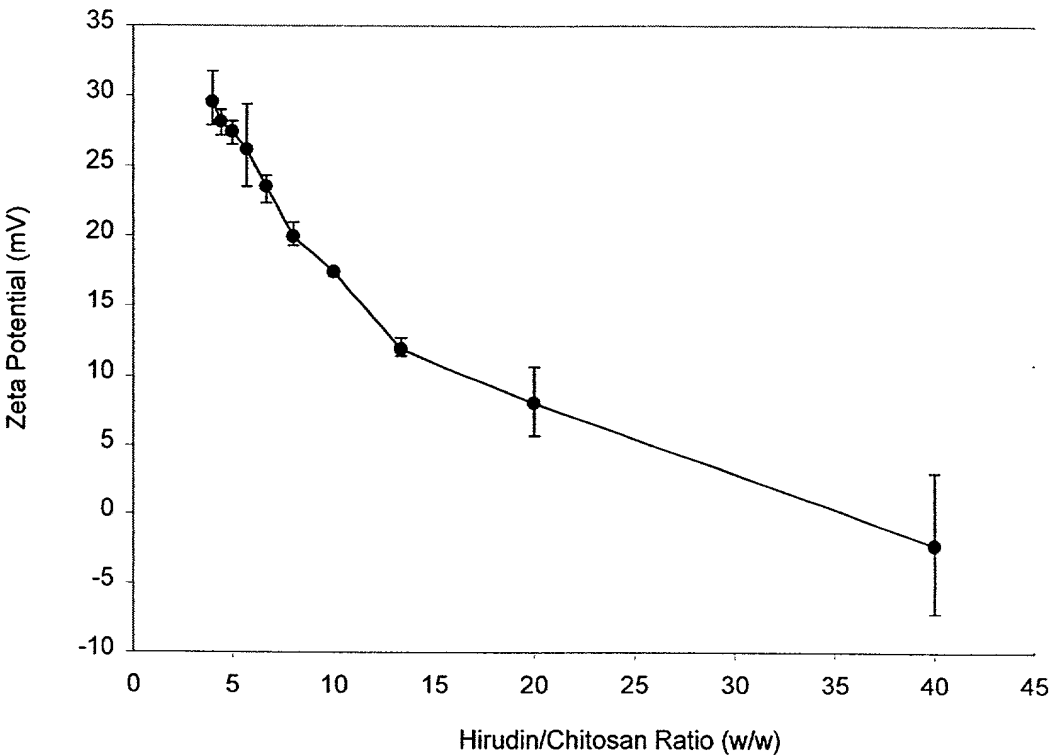


Figure 11



**Figure 12**

